

**Before the  
Public Service Commission of South Carolina**

**Docket No. 2022-4-G**

**Annual Review of Purchased Gas Adjustment and  
Gas Purchasing Policies of Piedmont Natural Gas Company, Inc.**

**Testimony & Exhibits of Jeffrey Patton  
On Behalf Of  
Piedmont Natural Gas Company, Inc.**



**June 2, 2022**

1 **Q. Please state your name and your business address.**

2 A. My name is Jeffrey Patton. My business address is 4720 Piedmont Row Drive,  
3 Charlotte, North Carolina 28210.

4 **Q. By whom and in what capacity are you employed?**

5 A. I am employed by Duke Energy Corporation (“Duke”) and work on behalf of  
6 Piedmont Natural Gas Company, Inc. (“Piedmont” or the “Company”), a wholly  
7 owned subsidiary of Duke, as the Manager of Pipeline Services.

8 **Q. Please describe your educational and professional background.**

9 A. I graduated from Mississippi State University with a Bachelor of Science Degree  
10 in Mechanical Engineering in 1996. In 1998, I graduated from Auburn  
11 University with a Master of Business Administration, Finance concentration. I  
12 was employed by Southern Company from 1998 to 2003 in various roles in  
13 Generation Planning and Development and Energy Marketing. From 2004 to  
14 2005, I was employed by Consolidated Edison as a Senior Rate Analyst. I served  
15 as a Senior Business Financial Analyst at Progress Energy from 2005 to mid-  
16 2008 and was responsible for wholesale electric revenue forecasting. From mid-  
17 2008 to early 2019, I was an Originator in the Fuels & Systems Optimization  
18 Department for Progress Energy (which merged with Duke), and I was  
19 responsible for the procurement of natural gas supply, transportation, and  
20 storage services for Duke’s natural gas-fired power generation facilities. In  
21 February 2019, I accepted the position of Manager of Pipeline Services.

1     **Q.     Please describe the scope of your present responsibilities.**

2     A.     My current responsibilities include the supervision of pipeline capacity planning  
3           and relations, annual design day and daily forecasting for Piedmont. In addition,  
4           I am responsible for oversight of activities at the Federal Energy Regulatory  
5           Commission (“FERC”) regarding interstate pipelines and storage facilities that  
6           the Company utilizes for transportation and storage services.

7     **Q.     Have you previously testified before the Public Service Commission of**  
8           **South Carolina (“Commission”) or any other regulatory authority?**

9     A.     Yes. I have testified before this Commission and the North Carolina Utilities  
10           Commission in Piedmont’s previous Annual Review of Gas Costs proceedings.

11    **Q.     What is the Review Period in this docket?**

12    A.     The Review Period is April 1, 2021, through March 31, 2022.

13    **Q.     What is the purpose of your testimony in this proceeding?**

14    A.     The purpose of my testimony is to discuss the market requirements of  
15           Piedmont’s South Carolina customers for the Review Period. My testimony is  
16           also forward-looking, discussing how Piedmont plans to satisfy the evolving  
17           market requirements of its South Carolina customers in the future. Specifically,  
18           my testimony will discuss how Piedmont projects changes in customer demand  
19           in those markets as part of its planning process, the capacity acquisition policies  
20           and practices the Company employs to serve those markets, and the efforts  
21           undertaken by Piedmont at the FERC on behalf of its customers to ensure that  
22           interstate transportation and storage services are reasonably priced.

1 **Q. As background, please give a general description of Piedmont and its**  
2 **market in South Carolina.**

3 A. Piedmont is a local distribution company principally engaged in the purchase,  
4 distribution, and sale of natural gas to more than 1.1 million customers in South  
5 Carolina, North Carolina, and the metropolitan area of Nashville, Tennessee.  
6 Piedmont currently serves approximately 158,500 customers in its South  
7 Carolina service territory, which encompasses areas within Anderson,  
8 Greenville, Spartanburg, and Cherokee counties. During the Review Period,  
9 Piedmont delivered 68,646,254 dekatherms (“dts”) of natural gas to its South  
10 Carolina customers. Most of Piedmont’s customers are residential, who directly  
11 use natural gas in their home primarily for space heating and water heating  
12 needs. Piedmont also serves non-residential customers, mainly commercial and  
13 industrial entities, and power generators.

14 For purposes of the market requirements planning that I discuss later in  
15 my testimony, it is important to conceptualize Piedmont’s provision of regulated  
16 natural gas service to its customers into two distinct markets: the firm market  
17 (principally serving residential, small commercial, and small industrial  
18 customers as well as power generators), and the interruptible market (principally  
19 large commercial and industrial customers). Although Piedmont competes with  
20 electricity for the attachment of firm customers, once attached residential and  
21 small commercial/industrial customers generally have no readily available  
22 alternative source of energy and depend on natural gas for their basic space

1 heating or utility needs. During the Review Period, 64,645,400 dts, or  
2 approximately 94% of Piedmont's South Carolina deliveries, were to the firm  
3 market.

4 In the interruptible market, Piedmont competes on a month-to-month and  
5 day-to-day basis with alternative sources of energy, primarily fuel oil or propane  
6 and, to a lesser extent, coal or wood. These larger commercial and industrial  
7 customers will buy alternate fuels when they are less expensive than natural gas.  
8 During the Review Period, 4,000,855 dts, or approximately 6% of Piedmont's  
9 South Carolina deliveries, were to the interruptible market.

10 Both the firm market and the interruptible market can be further  
11 bifurcated into two categories of service: sales service and transportation  
12 service. The regulated natural gas service provided by Piedmont to its South  
13 Carolina customers under each of its Commission-approved Rate Schedules is  
14 delineated as either firm service or interruptible service and is further  
15 characterized as either sales service or transportation service. Therefore, there  
16 are four major categories of the market requirements for Piedmont's customers:  
17 firm sales service, firm transportation service, interruptible sales service, and  
18 interruptible transportation service.

19 **Q. Do the market requirements of Piedmont's South Carolina customers**  
20 **change from year-to-year?**

21 A. Yes. The market requirements of Piedmont's South Carolina customers continue  
22 to increase year-to-year because Piedmont's customer base in South Carolina

1 continues to grow. Such growth is most robust in the residential sector. As  
2 mentioned above, Piedmont currently serves approximately 158,500 customers  
3 in South Carolina. One year ago, as mentioned in my testimony last year,  
4 Piedmont had about 155,000 customers in South Carolina. Therefore,  
5 understanding and projecting customer growth is an important component of the  
6 planning Piedmont undertakes to ensure it will be able to satisfy the market  
7 requirements of its South Carolina customers. Absent the incorporation of  
8 customer growth in its planning process, Piedmont would be unable to ensure  
9 the reliable provision of firm natural gas service to its firm sales customers, most  
10 critically in the winter season.

11 **Q. How does Piedmont develop its customer growth projections?**

12 A. Piedmont reviews historical customer additions, holds discussions with various  
13 business leaders/trade allies and field sales employees, and considers forecasts  
14 of local, regional and national business drivers (i.e., economic conditions,  
15 demographics, etc.) to derive projections of the change in its customer count  
16 over time. Presently, Piedmont anticipates that its overall customer base in South  
17 Carolina will continue to steadily increase largely due to the positive regional  
18 and local economic outlook continuing to support the pace of new residential  
19 building

20 **Q. In its planning to satisfy customer requirements during the Review Period,**  
21 **how did the Company calculate its Design Day requirements for Winter**  
22 **2021 – 2022?**

1 A. Piedmont's Design Day calculations for Winter 2021 – 2022 were performed  
2 using the same methodology as described in my testimony for last year's Annual  
3 Review proceeding. In summary, Piedmont performed linear regression analysis  
4 of its most recent customer data (actual customer sendout data from November  
5 2016 through March 2021 for all customer classes) so as to update its  
6 understanding of how our customers use natural gas for base load purposes and  
7 in response to weather (i.e., usage per heating degree day ("HDD")). Piedmont  
8 then adjoined that customer usage update with its customer growth projection  
9 for Winter 2021 – 2022, inclusive of a five percent (5%) reserve margin, in order  
10 to arrive at its Design Day requirements for Winter 2021 – 2022. I explain the  
11 need for such a reserve margin in the Company's Design Day requirements  
12 planning later in my testimony. Finally, the Company also reviewed its historic  
13 temperature data. From that review, Piedmont determined that an update of  
14 Design Day temperature from 8.71 to 8.69 degrees Fahrenheit was warranted.  
15 The update in Design Day temperature comports with a change in Design Day  
16 HDD from 56.29 HDD to 56.31 HDD. This modification to the Design Day  
17 HDD was warranted due to the allocation of weather station percentages based  
18 on the current customer service areas.

19 **Q. Does Piedmont believe that energy conservation measures utilized by**  
20 **customers are applicable when formulating Design Day requirements?**

21 A. Based on observable customer usage patterns, Piedmont believes that energy  
22 conservation measures are generally being utilized by our customers, but

1 Piedmont has not seen evidence that conservation or reduced usage is occurring  
2 during Design Day conditions, or during extended cold weather snaps in winter.  
3 For example, during the winter of 2017 – 2018, a particularly cold weather event  
4 occurred which gave Piedmont an opportunity to refresh its data and analyze  
5 customers' behavior during extremely cold weather. As in the past, the Company  
6 continued to observe that customers tend to conserve for the first few days of  
7 colder temperatures, but then turn up the thermostat in response to the colder  
8 temperatures. Thereafter, once adjusted to a warmer setting, customers appear  
9 to become less focused on conservation and more focused on comfort and leave  
10 the thermostat at the warmer level for a few days even as temperatures start to  
11 moderate. This pattern is illustrated in **Exhibit\_(JCP-3)**. Given what Piedmont  
12 experienced in the winter of 2017 – 2018 and its observation of how customers  
13 respond to colder temperatures in this pattern, the Company is confident that a  
14 conservative approach to Design Day forecasting is the most prudent approach.  
15 Piedmont continues to focus on being able to fully and reliably serve its firm  
16 sales customers on a Design Day.

17 **Q. What were the Design Day demand requirements used by the Company for**  
18 **planning purposes during the Review Period, the number of HDDs, dts per**  
19 **HDD, customer growth rates and supporting calculations used to determine**  
20 **the Design Day requirement?**

21 **A.** Please see **Exhibits\_(JCP-4A, 4B and 4C)**.



1   **Q.    What was the estimated base load demand requirement of the firm markets**  
2       **for the Review Period?**

3    A.    Please see **Exhibit\_(JCP-4A)**.

4   **Q.    Does the Company plan for a reserve margin to accommodate statistical**  
5       **anomalies, unanticipated supply or capacity interruptions, *force majeure*,**  
6       **emergency gas usage or colder-than-design day weather?**

7    A.    Yes. The Company computes a five percent (5%) reserve margin and arranges  
8       for supply and capacity to provide delivery of the reserve margin for events such  
9       as those listed above. This reserve margin is reflected in **Exhibit\_(JCP-4C)** and  
10       **Exhibit\_(JCP-5C)**.

11   **Q.    In its planning to satisfy customer requirements during the Review Period,**  
12       **how did the Company calculate its requirements for days other than Design**  
13       **Day during Winter 2021 – 2022?**

14   A.    Piedmont constructed a load duration curve to forecast the Company's firm sales  
15       market requirements for design winter weather conditions. The supply  
16       requirements were plotted in descending order of magnitude, with existing  
17       pipeline capacity and storage resources overlaid to expose any supply shortfalls.  
18       The load duration curve for the Winter 2021 – 2022, as forecasted in the  
19       immediate planning for Winter 2021 – 2022, is shown in **Exhibit\_(JCP-1A)**.  
20       For ease of comparison, I plotted the actual Winter 2021 – 2022 experience in  
21       **Exhibit\_(JCP-1B)**.

1 **Q. Did the Company appropriately plan for satisfying its customer**  
2 **requirements for the Review Period including Winter 2021 – 2022?**

3 A. Yes. I note that Piedmont fully and reliably satisfied the firm sales requirements  
4 of its South Carolina customers during the Review Period.

5 **Design Day and Winter Season Planning for Future Periods:**

6 **Winter 2022 – 2023 through Winter 2026 – 2027**

7 **Q. Has the Company made any changes to its calculation of Design Day**  
8 **requirements for the future?**

9 A. No. The Company is utilizing the same methodology as described above,  
10 refreshed to include actual customer sendout data from Winter 2021 – 2022 for  
11 the calculation of the Design Day requirement to be effective with this coming  
12 winter — Winter 2022 – 2023. Additionally, the Company also reviewed its  
13 historic temperature data. From that review, Piedmont determined that an update  
14 of Design Day temperature from 8.69 to 8.71 degrees Fahrenheit was warranted.  
15 The update in Design Day temperature comports with a change in Design Day  
16 HDD from 56.31 HDD to 56.29 HDD. This modification to the Design Day  
17 HDD was warranted due to the allocation of weather station percentages based  
18 on the current customer service areas. This Design Day temperature is reflected  
19 in **Exhibit\_(JCP-7)**.

20 **Q. What are the newly forecasted Design Day demand requirements used by**  
21 **the Company for planning purposes for the upcoming winter (Winter 2022**  
22 **– 2023) and for the next four winter seasons, the amount of HDDs, dts per**

**HDD, customer growth rates and supporting calculations used to determine the Design Day requirement amounts?**

A. Please see Exhibits\_(JCP-5A, 5B, and 5C).

**Q. What are the newly forecasted base load demand requirements for the upcoming winter and the next four winter seasons?**

A. Please see Exhibit\_(JCP-5A).

**Q. How has the Company calculated its requirements for days other than Design Day for the coming winter season (Winter 2022 – 2023)?**

A. Piedmont employed the same process used to develop its forecasted load duration curve for Winter 2022 – 2023, as described earlier in my testimony. The current load projection for this coming winter (Winter 2022 – 2023) is shown in Exhibit\_(JCP-2).

**Supply & Capacity Planning to Satisfy Customer Demand**

**Q. Is it possible to always maintain capacity rights that exactly match Piedmont’s calculated Design Day demand, plus a reserve margin?**

A. No. Capacity additions are acquired in “blocks” of additional transportation, storage, or liquified natural gas (“LNG”) capacity as current and future needs are identified to ensure Piedmont’s ability to serve its customers based on the options available at that time. As a practical matter, this means that at any given moment in time, Piedmont’s actual capacity assets will vary somewhat from its forecasted demand capacity requirements. This aspect of capacity planning is unavoidable but Piedmont attempts to mitigate the impact of any mismatch

1 through its use of bridging services, capacity release, and off-system sales  
2 activities.

3 **Q. What process does Piedmont undertake to acquire firm capacity to meet its**  
4 **growing firm sales market requirements?**

5 A. Piedmont secures incremental capacity to meet the growth requirements of its  
6 firm sales customers consistent with its “best cost” policy, as described in the  
7 testimony of Company witness Todd Breece. To implement this policy,  
8 Piedmont attempts to contract for timely and cost-effective capacity that is  
9 tailored to the demand characteristics of its market. Piedmont evaluates  
10 interstate pipeline capacity and storage offerings expected to be available at the  
11 time that it is determined that additional future firm delivery service is required,  
12 or prior to the expiration of existing firm delivery service contracts. The  
13 Company attempts to match the days of service of new incremental  
14 transportation capacity to the duration of its incremental demand on the most  
15 economical basis possible. Piedmont also seeks to acquire peaking services to  
16 meet projected peak day demand, storage services to meet projected seasonal  
17 demand, and year-round firm transportation services to meet base load demand  
18 and to provide available capacity for storage inventory replenishment. However,  
19 service choices are limited to those offered during the time period being  
20 evaluated.

21 **Q. Please describe how the Company plans to satisfy its firm sales**  
22 **requirements for the next five winter seasons.**

1 A. Based on the current projections of its firm sales demand, Piedmont believes that  
2 it has sufficient supply and capacity rights to meet its customer needs for the  
3 upcoming winter season. Piedmont owns and operates three on-system LNG  
4 peaking facilities in the Carolinas, with the newest LNG facility – the Robeson  
5 LNG facility – placed into service in late August 2021. Piedmont increased the  
6 Design Day output of its Bentonville LNG peaking facility from 90,000 dts per  
7 day to 110,000 dts per day beginning in the Winter 2021 – 2022 season, and the  
8 new Robeson LNG facility currently provides 200,000 dts per day of peaking  
9 supply of natural gas.

10 **Q. Please discuss Piedmont’s plans to satisfy requirements that would have**  
11 **been met by the Atlantic Coast Pipeline (“ACP”) Project.**

12 A. Piedmont had contracted for 160,000 dts per day of firm pipeline service on the  
13 ACP Project to provide additional upstream capacity, supply access, and  
14 infrastructure. Following the cancellation of the ACP Project in July 2020,  
15 Piedmont evaluated interstate pipeline alternatives to serve future demand  
16 combined with system infrastructure requirements that would have been met by  
17 ACP. In the summer of 2021, Piedmont entered into a confidential, binding  
18 precedent agreement with Transcontinental Gas Pipe Line Company, LLC  
19 (“Transco”) to secure additional incremental firm pipeline service via Transco’s  
20 Southside Reliability Enhancement (“SRE”) Project that is targeted to be placed  
21 in-service on December 1, 2024. The SRE Project will provide Piedmont with  
22 160,000 dts per day of incremental firm pipeline service via Transco’s South

1 Virginia Lateral (“SVL path”) to delivery points in Piedmont’s eastern North  
2 Carolina service territory. The SVL path provides redelivery of natural gas  
3 supply from the interconnect of Transco’s mainline in Zone 5 and the South  
4 Virginia Lateral at Station 165. Piedmont anticipates utilizing existing upstream  
5 contractual transportation and storage arrangements to access upstream non-  
6 Transco Zone 5 priced supply to deliver into the SVL path, as reflected on  
7 **Exhibit\_(JCP 5C)**. Additionally, the SRE Project will provide a separate firm  
8 pipeline service path of 263,400 dts per day from Transco’s interconnect with  
9 Pine Needle LNG to Piedmont’s Iredell meter (“Iredell path”) located in Iredell  
10 County, North Carolina. Piedmont has an existing contract with Pine Needle  
11 LNG for 263,400 dts per day and has been utilizing Piedmont’s existing Transco  
12 transportation contracts on a secondary firm basis to deliver supply from Pine  
13 Needle to Iredell. Secondary deliveries may no longer be reliable to deliver Pine  
14 Needle volumes under some operating conditions due to changes on the Transco  
15 system. This has required Piedmont to seek primary firm capacity rights to  
16 deliver these Pine Needle volumes to its citygate.

17 **Q. Has the Company made any changes to its capacity rights during the**  
18 **Review Period?**

19 **A.** The Company did not make any changes to its capacity rights during the Review  
20 Period.

1   **Q.   Please describe the Company's interest and position on any issues before**  
2       **the FERC that may have an impact on the Company's operations and a**  
3       **description of the status of each proceeding described.**

4   A.   The Company routinely intervenes and participates in interstate natural gas  
5       pipeline proceedings before the FERC. A current summary of the proceedings  
6       in which Piedmont is a party is included in **Exhibit\_(JCP-6)**.

7   **Q.   Does this conclude your testimony?**

8   A.   Yes, it does.

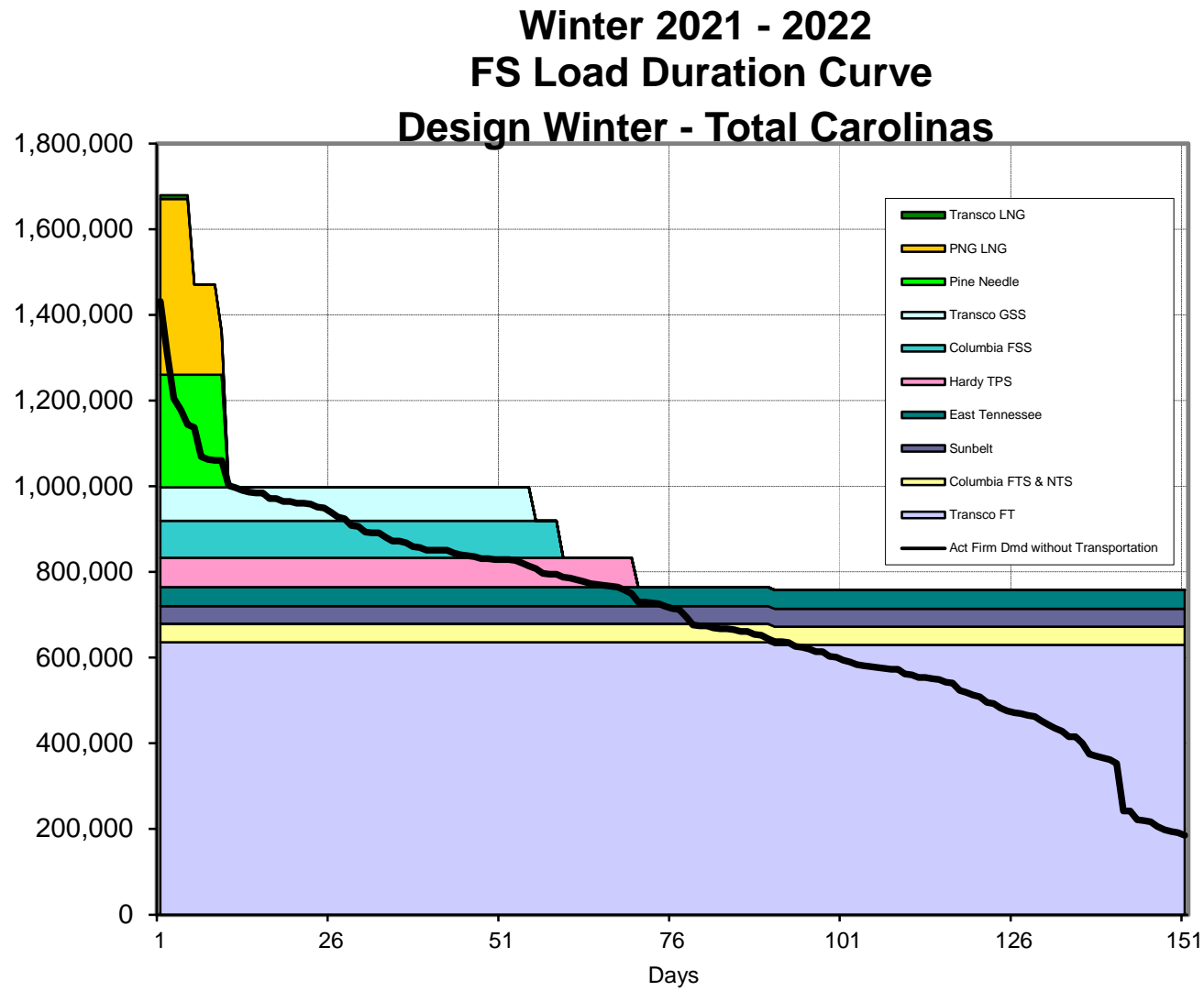
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**Index - JCP Exhibits**

<u>Exhibit Number</u>	<u>Description</u>
JCP-1A	Winter 2021 – 2022 Forecast Load Duration Curve
JCP-1B	Winter 2021 – 2022 Actual Load Duration Curve
JCP-2	Winter 2022 – 2023 Forecast Load Duration Curve
JCP-3	2018 Weather Events
JCP-4A	Winter 2021 – 2022 Design Day Start Point
JCP-4B	Customer Growth – Actual and Projection for 2021 – 2022 planning
JCP-4C	Winter 2021 – 2022 Design Day Demand & Supply Schedule
JCP-5A	Winter 2022 – 2023 Design Day Start Point
JCP-5B	Customer Growth – Actual and Projection for 2022-2023 planning
JCP-5C	Winter 2022-2023 Design Day Demand & Supply Schedule
JCP-6	FERC Filing Activity April 1, 2021 – March 31, 2022
JCP-7	Design Day Temperature

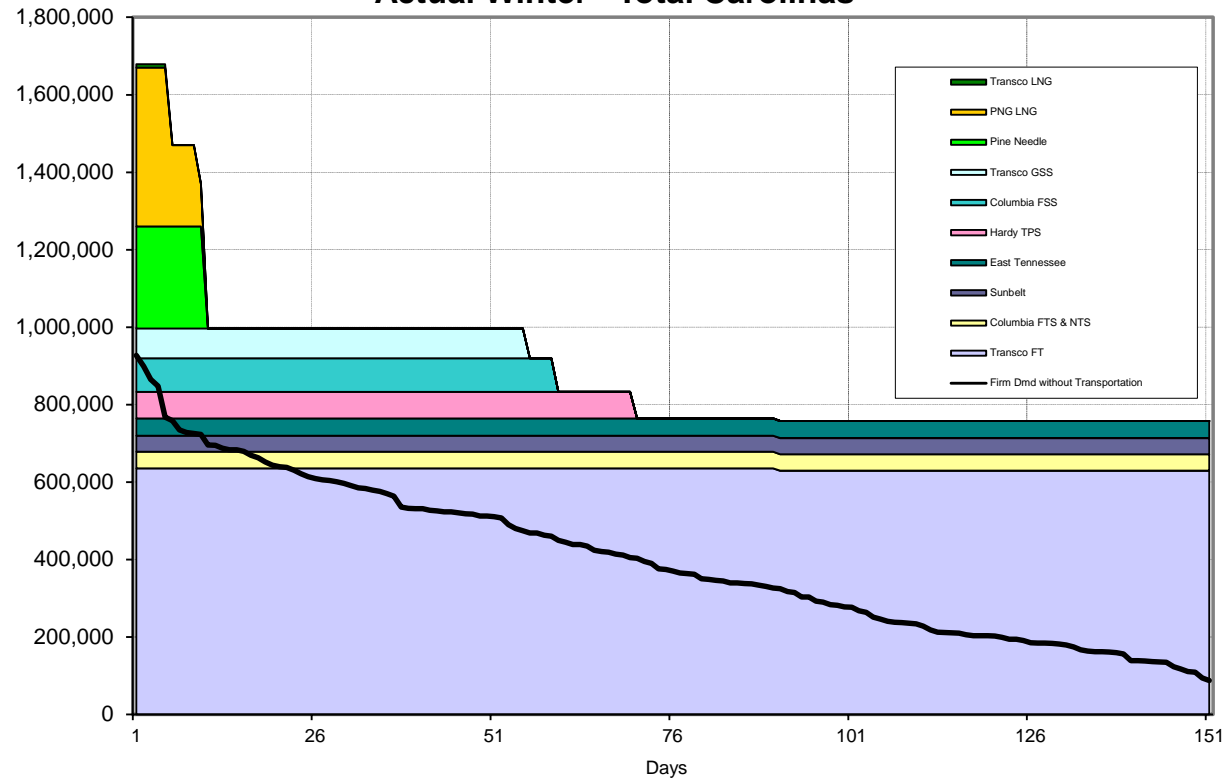


**Exhibit\_\_\_\_(JCP-1A)**



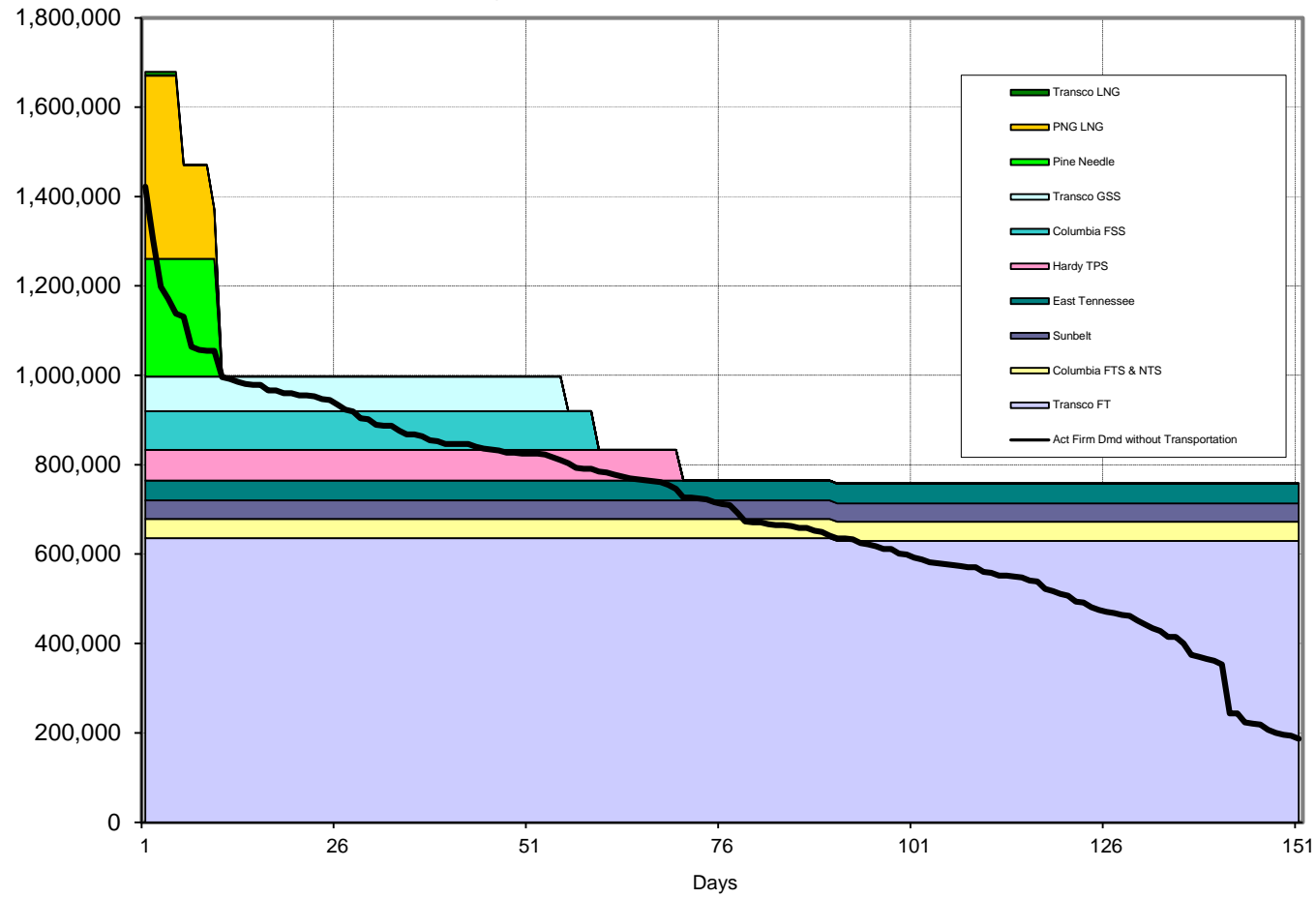
**Exhibit\_\_\_\_(JCP-1B)**

**Winter 2021 - 2022  
Load Duration Curve  
Actual Winter - Total Carolinas**



**Exhibit\_\_\_\_(JCP-2)**

**Winter 2022 - 2023  
FS Load Duration Curve  
Design Winter - Total Carolinas**



**Exhibit\_\_\_\_(JCP-3)**

2017-2018 Weather Event

**Carolinas: December 2017 - January 2018 Cold Snap**

Date	Firm Sales & Firm Transportation Less Base Load	HDDs	Usage per HDD Less Base Load
12/30/2017	530,098	28.2	18,798
12/31/2017	836,623	41.3	20,257
1/1/2018	975,969	46.2	21,125
1/2/2018	1,011,608	42.0	24,086
1/3/2018	972,138	39.3	24,736
1/4/2018	1,037,719	44.5	23,320
1/5/2018	1,011,070	42.8	23,623
1/6/2018	1,015,633	44.8	22,670
1/7/2018	964,821	40.5	23,823
1/8/2018	714,357	27.8	25,696

All usage is in dekatherms.

Base load equals 164,485 dekatherms.



**Exhibit\_\_\_\_(JCP-4A)**

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Exhibit\_(JCP-4A)

## Winter 2021 - 2022 Design Day Start Point

### Design Day Forecast 2021 - 2022

### Total Carolinas

Baseload - Firm Sales	122,316.59
Design Day Temperature	8.69
Design Day HDD	56.31

Estimated increase in Firm Sales Usage per degree day	21,541.56
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Total Firm Sales usage for total 56.31 HDDs	1,335,322
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Projected Net Growth Rate	1.529%
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System Design Day Firm Sendout 2021 - 2022	1,355,743
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TOTAL NEW FIRM SALES PICKED UP MID YEAR & ANNUAL ELECTIONS	886
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TOTAL FIRM SALES MOVED TO TRANSPORT ANNUAL ELECTIONS	(574)
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<b>TOTAL NET NUMBER - FIRM SALES PICKED UP</b>	<b>312</b>
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Firm Sales Contract Commitment - GE	333
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Firm Sales Contract Commitment - City of Wilson	3,900
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Firm Sales Contract Commitment - City of Rocky Mount	3,000
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Total Firm Sales Contract Commitment	7,233
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**Exhibit\_\_\_\_(JCP-4B)**

Piedmont Natural Gas  
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Exhibit\_\_(JCP - 4B)

Customer Growth for Winter Design Day 2021-2022

Actual Customer Count by Year as of March 31 Through 2021  
Projected Customer Count by Year as of March 31, 2022 Through 2024

TOTAL RESIDENTIAL & COMMERCIAL CUSTOMER COUNT											
ACTUAL								PROJECTION			
	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>
Total NC & SC	839,328	852,754	865,950	876,464	891,191	901,513	915,099	936,163	950,767	965,979	981,725
	1.49%	1.60%	1.55%	1.21%	1.68%	1.16%	1.51%	2.30%	1.53%	1.56%	1.60%

**Exhibit\_\_\_\_(JCP-4C)**

## Carolinas Design Day Demand & Supply Schedule - Winter 2021 - 2022

Design Day Temperature of 8.69 Degrees (56.31 HDDs)

(All Values in Dt/d)		Carolinas Demand Net Growth Rate	1.53%	1.56%	1.60%	1.63%	1.67%
<b>DEMAND</b>		<b>Winter Period:</b>	<b>2021 - 22</b>	<b>2022 - 23</b>	<b>2023 - 24</b>	<b>2024 - 25</b>	<b>2025 - 26</b>
1	System Design Day Firm Sendout		1,355,743	1,377,216	1,399,196	1,421,982	1,445,680
2	Mid Year Firm Sales Pick Up		886				
3	Mid Year Firm Sales Deduct (move to Firm Transport)		(574)				
4	Subtotal Sendout plus Mid Year Pickup		1,356,055	1,377,216	1,399,196	1,421,982	1,445,680
5	Special Contract Firm Sales Commitment		7,233	7,233	7,233	7,233	7,233
6	Total Firm Design Day Demand		1,363,288	1,384,449	1,406,429	1,429,215	1,452,913
7	Reserve Margin on Design Day Demand (5%)		68,164	69,222	70,321	71,461	72,646
8	<b>Total Firm Sales Demand</b>		<b>1,431,452</b>	<b>1,453,671</b>	<b>1,476,751</b>	<b>1,500,676</b>	<b>1,525,559</b>
9	<b>SUPPLY CAPACITY</b>						
10	<b>Firm Transportation</b>						
11	<b>Type of Contract</b>	<b>Days</b>					
12	Transco FT	365	301,016	301,016	301,016	301,016	301,016
13	Transco FT	365	6,440	6,440	6,440	6,440	6,440
14	Transco FT SE '94/95/96	365	129,485	129,485	129,485	129,485	129,485
15	Transco Sunbelt	365	41,400	41,400	41,400	41,400	41,400
16	Transco VA Southside	365	20,000	20,000	20,000	20,000	20,000
17	Transco Leidy	365	100,000	100,000	100,000	100,000	100,000
18	Columbia Gas FTS	365	9,801	9,801	9,801	9,801	9,801
19	Columbia Gas FTS	365	23,000	23,000	23,000	23,000	23,000
20	Columbia Gas NTS	365	10,000	10,000	10,000	10,000	10,000
21	East TN (MGT Upstream) FT	365	19,578	19,578	19,578	19,578	19,578
22	<b>Total Year Round FT</b>		<b>660,720</b>	<b>660,720</b>	<b>660,720</b>	<b>660,720</b>	<b>660,720</b>
23							
24	Transco FT Southern Expansion	151	72,502	72,502	72,502	72,502	72,502
25	East TN (TETCO Upstream) FT	151 <sup>1</sup>	24,798	24,798	24,798	24,798	24,798
26	Transco FT	90	6,314	6,314	6,314	6,314	6,314
27	<b>Total Winter Only FT</b>		<b>103,614</b>	<b>103,614</b>	<b>103,614</b>	<b>103,614</b>	<b>103,614</b>
28	<b>Firm Transportation Subtotal</b>						
29			<b>764,334</b>	<b>764,334</b>	<b>764,334</b>	<b>764,334</b>	<b>764,334</b>
30							
31	Hardy Storage HSS	70	68,835	68,835	68,835	68,835	68,835
32	Dominion GSS	60 <sup>2</sup>	0	0	0	0	0
33	Columbia Gas FSS/SST	59	86,368	86,368	86,368	86,368	86,368
34	Transco GSS	55	77,475	77,475	77,475	77,475	77,475
35							
36	<b>Total Seasonal Storage</b>		<b>232,678</b>	<b>232,678</b>	<b>232,678</b>	<b>232,678</b>	<b>232,678</b>
37							
38	<b>Peaking Capacity</b>						
39	Piedmont LNG - Huntersville	10	100,000	100,000	100,000	100,000	100,000
40	Piedmont LNG - Bentonville	9	110,000	110,000	110,000	110,000	110,000
41	Transco Pine Needle	10	263,400	263,400	263,400	263,400	263,400
42	Transco LNG (formerly LG-A)	5	8,643	8,643	8,643	8,643	8,643
43	Piedmont LNG - Robeson	5 <sup>3</sup>	200,000	200,000	200,000	200,000	200,000
44	<b>Peaking Supplies Total</b>		<b>682,043</b>	<b>682,043</b>	<b>682,043</b>	<b>682,043</b>	<b>682,043</b>
45							
46	<b>Total Capacity</b>		<b>1,679,055</b>	<b>1,679,055</b>	<b>1,679,055</b>	<b>1,679,055</b>	<b>1,679,055</b>
47			<b>247,603</b>	<b>225,384</b>	<b>202,304</b>	<b>178,379</b>	<b>153,496</b>

<sup>1</sup> East TN capacity is 365 days, however the upstream TETCO capacity delivering to East TN is 151 days<sup>2</sup> Beginning in FY2015, Dominion capacity removed as available capacity on design day due to non-firm backhaul from Transco Zone 6.<sup>3</sup> The Robeson LNG facility is anticipated to be completed in the summer of 2021, and therefore is forecasted to provide peaking support starting winter 2021-2022. The capacity portfolio for the 2021-2022 winter season and beyond will be restructured to include Robeson LNG using the "best cost" gas purchasing policy while considering the customer load profile and future requirements that would have been met by the Atlantic Coast Pipeline.

**Exhibit\_\_\_\_(JCP-5A)**

Piedmont Natural Gas  
Docket No. 2022-4-G

Exhibit\_(JCP-5A)

## Winter 2022 - 2023 Design Day Start Point

### Design Day Forecast 2022 - 2023

### Total Carolinas

Baseload - Firm Sales	124,483.50
Design Day Temperature	8.71
Design Day HDD	56.29

Estimated increase in Firm Sales Usage per degree day	21,355.56
---	-----------

Total Firm Sales usage for total 56.31 HDDs	1,326,588
Projected Net Growth Rate	1.72%

<b>System Design Day Firm Sendout 2021 - 2022</b>	<b>1,349,408</b>
---	------------------

TOTAL NEW FIRM SALES PICKED UP MID YEAR & ANNUAL ELECTIONS	1,379
--	-------

TOTAL FIRM SALES MOVED TO TRANSPORT ANNUAL ELECTIONS	(3,776)
--	---------

<b>TOTAL NET NUMBER - FIRM SALES PICKED UP</b>	<b>(2,396)</b>
--	----------------

Firm Sales Contract Commitment - GE	333
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Firm Sales Contract Commitment - City of Wilson	3,900
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Firm Sales Contract Commitment - City of Rocky Mount	3,000
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<b>Total Firm Sales Contract Commitment</b>	<b>7,233</b>
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**Exhibit\_\_\_\_(JCP-5B)**

Piedmont Natural Gas  
Docket No. 2022-4-G

Exhibit\_(JCP-5B)

Customer Growth for Winter Design Day 2022-2023

Actual Customer Count by Year as of March 31 Through 2022  
Projected Customer Count by Year as of March 31 Through 2025

TOTAL RESIDENTIAL & COMMERCIAL CUSTOMER COUNT											
ACTUAL									PROJECTION		
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total NC & SC	852,754	865,950	876,464	891,191	901,513	915,099	936,163	951,458	967,825	984,873	1,002,573
	1.60%	1.55%	1.21%	1.68%	1.16%	1.51%	2.30%	1.63%	1.72%	1.76%	1.80%

**Exhibit\_\_\_\_(JCP-5C)**

## Carolinas Design Day Demand & Supply Schedule - Winter 2022 - 2023

Design Day Temperature of 8.71 Degrees (56.29 HDDs)

(All Values in Dth/d)		Carolinas Demand Net Growth Rate		1.7202%	1.7615%	1.7972%	1.8325%	1.8325%
<b>DEMAND</b>		Winter Period:	2022 - 23	2023 - 24	2024 - 25	2025 - 26	2026 - 27	
1	System Design Day Firm Sendout		1,349,408	1,370,739	1,395,374	1,420,944	1,446,983	
2	Mid Year Firm Sales Pick Up		1,379					
3	Mid Year Firm Sales Deduct (move to Firm Transport)		(3,776)					
4	Subtotal Sendout plus Mid Year Pickup		1,347,011	1,370,739	1,395,374	1,420,944	1,446,983	
5	Special Contract Firm Sales Commitment		7,233	7,233	7,233	7,233	7,233	
6	Total Firm Design Day Demand		1,354,244	1,377,972	1,402,607	1,428,177	1,454,216	
7	Reserve Margin on Design Day Demand (5%)		67,712	68,899	70,130	71,409	72,711	
8	<b>Total Firm Sales Demand</b>		<b>1,421,957</b>	<b>1,446,871</b>	<b>1,472,737</b>	<b>1,499,586</b>	<b>1,526,927</b>	
9	<b>SUPPLY CAPACITY</b>							
10								
11	<b>Firm Transportation</b>	<b>Type of Contract</b>	<b>Days</b>					
12	Transco	FT	365	301,016	301,016	301,016	301,016	301,016
13	Transco	FT	365	6,440	6,440	6,440	6,440	6,440
14	Transco	FT SE '94/95/96	365	129,485	129,485	129,485	129,485	129,485
15	Transco	Sunbelt	365	41,400	41,400	41,400	41,400	41,400
16	Transco	VA Southside	365	20,000	20,000	20,000	20,000	20,000
17	Transco	Leidy	365	100,000	100,000	100,000	100,000	100,000
18	Columbia Gas	FTS	365	9,801	9,801	9,801	9,801	9,801
19	Transco SRE (Columbia Gas Upstream)	FTS	365 <sup>4</sup>	23,000	23,000	23,000	23,000	23,000
20	Columbia Gas	NTS	365	10,000	10,000	10,000	10,000	10,000
21	Transco SRE (East TN & MGT & Upstream)	FT	365 <sup>4</sup>	19,578	19,578	19,578	19,578	19,578
22	<b>Total Year Round FT</b>		<b>660,720</b>	<b>660,720</b>	<b>660,720</b>	<b>660,720</b>	<b>660,720</b>	
23								
24	Transco	FT Southern Expansion	151	72,502	72,502	72,502	72,502	72,502
25	Transco SRE (East TN & TETCO Upstream)	FT	151 <sup>1,4</sup>	24,798	24,798	24,798	24,798	24,798
26	Transco	FT	90	6,314	6,314	6,314	6,314	6,314
27	<b>Total Winter Only FT</b>		<b>103,614</b>	<b>103,614</b>	<b>103,614</b>	<b>103,614</b>	<b>103,614</b>	
28								
29	<b>Firm Transportation Subtotal</b>		<b>764,334</b>	<b>764,334</b>	<b>764,334</b>	<b>764,334</b>	<b>764,334</b>	
30								
31	Transco SRE (Hardy Storage Upstream)	HSS	70 <sup>4</sup>	68,835	68,835	68,835	68,835	68,835
32	Dominion	GSS	60 <sup>2</sup>	0	0	0	0	0
33	Transco SRE (Columbia Gas Upstream)	FSS/SST	59 <sup>4</sup>	86,368	86,368	86,368	86,368	86,368
34	Transco	GSS	55	77,475	77,475	77,475	77,475	77,475
35								
36	<b>Total Seasonal Storage</b>		<b>232,678</b>	<b>232,678</b>	<b>232,678</b>	<b>232,678</b>	<b>232,678</b>	
37								
38	<b>Peaking Capacity</b>							
39	Piedmont	LNG - Huntersville	10	100,000	100,000	100,000	100,000	100,000
40	Piedmont	LNG - Bentonville	9	110,000	110,000	110,000	110,000	110,000
41	Transco	Pine Needle	10 <sup>4</sup>	263,400	263,400	263,400	263,400	263,400
42	Transco	LNG (formerly LG-A)	5	8,643	8,643	8,643	8,643	8,643
43	Piedmont	LNG - Robeson	5 <sup>3</sup>	200,000	200,000	200,000	200,000	200,000
44	<b>Peaking Supplies Total</b>		<b>682,043</b>	<b>682,043</b>	<b>682,043</b>	<b>682,043</b>	<b>682,043</b>	
45								
46	<b>Total Capacity</b>		<b>1,679,055</b>	<b>1,679,055</b>	<b>1,679,055</b>	<b>1,679,055</b>	<b>1,679,055</b>	
47			<b>257,098</b>	<b>232,184</b>	<b>206,318</b>	<b>179,469</b>	<b>152,128</b>	

<sup>1</sup> East TN capacity is 365 days, however the upstream TETCO capacity delivering to East TN is 151 days<sup>2</sup> Beginning in FY2015, Dominion capacity removed as available capacity on design day due to non-firm backhaul from Transco Zone 6.<sup>3</sup> During the Review Period, construction of the Robeson LNG plant was completed, and it was placed in service in August 2021.<sup>4</sup> Transco SRE project has a target in-service date of December 1, 2024. This project will provide deliverability of 160,000 Dth per day (365 days) from Transco's South VA Lateral with upstream supply from existing non-Transco Zone 5 priced supply contracts (TCO 23,000, ENT/MGT 19,578, ETN/TETCO 24,798, TCO/FSS 81,169 and Hardy 11,455). The project will also provide a firm path of 263,400 Dth per day from Pine Needle LNG to Piedmont's citygate in Iredell County, NC.

**Exhibit\_\_\_\_(JCP-6)**

**FERC Filing Activity: April 1, 2021 – March 31, 2022**

<b>Docket Number</b>	<b>Pipeline Applicant</b>	<b>Filed Date</b>	<b>Action</b>	<b>Description</b>	<b>Status of Docket</b>
RP21-681-000	Pine Needle LNG Company, LLC	3/31/2021	Intervened on 4/12/2021	2021 Annual Fuel and Electric Power Tracker Filing	On 4/16/2021, the Commission issued a letter order accepting the filing.
RP21-686-000	Transcontinental Gas Pipe Line Company, LLC	3/31/2021	Intervened on 4/12/2021	Crediting of Reservation Charges – Rate Schedules GSS, S-2, LNG, and LG-A	On 6/21/2021, the Commission issued a letter order accepting the filing.
RP21-687-000	Columbia Gas Transmission, LLC	3/31/2021	Intervened on 4/12/2021	Operational Transaction Rate Adjustment Summer 2021	On 2/25/2022, the Commission issued an order approving a settlement agreement that included Columbia Gas' filing in Docket No. RP21-687.
RP21-697-000	East Tennessee Natural Gas, LLC	3/31/2021	Intervened on 4/12/2021	2019-2020 Cashout Report	On 7/21/2021, the Commission issued a letter order accepting the filing.

**FERC Filing Activity: April 1, 2021 – March 31, 2022**

RP21-728-000	Columbia Gas Transmission, LLC	4/8/2021	Intervened on 4/13/2021	Petition for Limited Waivers Regarding Capacity Release, Right of First Refusal and Shipper-Must-Have-Title Rules, the Prohibition on Buy-Sell Arrangements, and the Prohibition Against Tying Arrangements	On 6/02/2021, the Commission issued an order denying Columbia Gas' request for waivers. This docket was consolidated with Docket Nos. RP21-727-000 and RP21-728-000.
RP21-729-000	Columbia Gas Transmission, LLC	4/8/2021	Intervened on 4/13/2021	Petition for Limited Waivers Regarding Capacity Release, Right of First Refusal and Shipper-Must-Have-Title Rules, the Prohibition on Buy-Sell Arrangements, and the Prohibition Against Tying Arrangements	On 6/02/2021, the Commission issued an order denying Columbia Gas' request for waivers. This docket was consolidated with Docket Nos. RP21-727-000 and RP21-728-000.
CP21-94-000	Transcontinental Gas Pipe Line Company, LLC	3/26/2021	Intervened on 4/30/21	Application for a Certificate of Public Convenience and Necessity – Regional Energy Access Expansion Project	Multiple motions to intervene and comments have been filed. The proceeding is ongoing.
RP21-552-000	Tennessee Gas Pipeline Company, L.L.C.	3/1/2021	Intervened on 3/15/2021  Piedmont participated as part of a shipper group which filed post-hearing comments and	2021 Fuel Tracker	On 3/31/2021, the Commission issued an order accepting and suspending the revised tariff records, subject to refund, and establishing hearing procedures. Settlement proceedings reached an impasse, and a virtual hearing was held. Parties have submitted briefs and

FERC Filing Activity: April 1, 2021 – March 31, 2022

			filed a motion opposing a late-filed intervention.		are awaiting an Initial Decision.
RP21-829-000	Coalition for Fair Fuel Rates v. Columbia Gulf Transmission, LLC	5/17/2021	Intervened on 6/14/21	Complaint and Request for Prospective Modification of Fuel Reimbursement Methodology to Conform to Commission Regulations and Policy	On 10/21/2021, the Commission issued an order denying the complaint. On 12/20/2021, the Commission denied the Coalition's request for rehearing. On 2/04/2022, the Commission issued an order addressing arguments on rehearing. The Commission disagreed with the Coalition's complaint finding that Columbia Gulf's pooling structure, postage stamp rate design, and fuel methodology, were not unjust, unreasonable, unduly discriminatory, and were otherwise consistent



FERC Filing Activity: April 1, 2021 – March 31, 2022

					with other Commission policies and regulations.
RP21-904-000	Chief Oil & Gas LLC and Southern Company Services, Inc.	6/22/2021	Intervened on 7/06/21	Joint Petition for Limited Waiver of Capacity Release Regulations	On 8/20/2021, the Commission issued a letter order accepting the filing.
RP21-929-000	Texas Eastern Transmission, LP	6/30/2021	Intervened on 7/12/2021	Electric Power Cost and Surcharge Filing	On 7/20/2021, the Commission issued a letter order accepting the filing.
RP21-965-000	East Tennessee Natural Gas, LLC	7/14/2021	Intervened on 7/26/2021	Right of First Refusal Filing	On 8/04/2021, the Commission issued a letter order accepting the filing.
RP21-974-000	Transcontinental Gas Pipe Line Company, LLC	7/19/2021	Intervened on 8/02/2021	Revisions to Section 2.7 of Rate Schedule FT	On 8/20/2021, the Commission issued a letter order accepting the filing.

**FERC Filing Activity: April 1, 2021 – March 31, 2022**

RP21-1001-000	Texas Eastern Transmission, LP	7/30/2021	Intervened and Protested on 8/11/2021  Piedmont is participating in the rate case proceeding as part of an LDC customer group. The group has retained a consultant to represent the members' interests.	2021 Section 4 Rate Case	On 08/31/2021, the Commission issued an order rejecting TETCO's rate case filing. However, on rehearing of the 08/31/2021 order, the Commission accepted the rate case filing subject to TETCO removing certain income tax allowance tariff records. This proceeding was later consolidated with TETCO's refiled rate case filing in Docket No. RP21-1188. Settlement discussions are ongoing.
RP21-1078-000	Transcontinental Gas Pipe Line Company, LLC	8/31/2021	Intervened on 9/13/2021	2021 Annual Charge Adjustment Tracker Filing – Rate Schedules GSS, LSS, SS-2 & S-2	On 9/14/2021, the Commission issued a letter order accepting the filing.

**FERC Filing Activity: April 1, 2021 – March 31, 2022**

RP21-1157-000	Tennessee Gas Pipeline Company, L.L.C.	9/28/2021	Intervened on 10/12/2021	Pipeline Safety and Greenhouse Gas Cost Adjustment Mechanism	On 10/20/2021, the Commission issued a letter order accepting the filing.
RP21-1159-000	Eastern Gas Transmission and Storage, Inc.	9/29/2021	Intervened on 10/12/2021	2021 Annual Electric Power Cost Adjustment	On 10/22/2021, the Commission issued a letter order accepting the filing.
RP21-1160-000	Eastern Gas Transmission and Storage, Inc.	9/29/2021	Intervened on 10/12/2021	2021 Annual Transportation Cost Rate Adjustment	On 12/10/2021, the Commission issued a letter order accepting the filing.
RP21-1171-000	Transcontinental Gas Pipe Line Company, LLC	9/29/2021	Intervened on 10/12/2021	Annual Cash-Out Report	Proceeding is currently ongoing with multiple intervenors.
RP21-1187-000	Eastern Gas Transmission and Storage, Inc.	9/30/2021	Intervened and Protested on 10/12/2021	2021 Section 4 Rate Case	On 10/29/2021, the Commission issued an order suspending, subject to refund, the tariff records and established hearing

FERC Filing Activity: April 1, 2021 – March 31, 2022

			Piedmont is participating in the rate case proceeding as part of an LDC customer group. The group has retained a consultant to represent the members' interests.		procedures. Settlement discussions are ongoing.
RP21-1188-000	Texas Eastern Transmission, LP	9/30/2021	<p>Intervened and Protested on 10/12/2021</p> <p>Piedmont is participating in the rate case proceeding as part of an LDC customer group. The group has</p>	2021 Section 4 Rate Case	On 10/29/2021, the Commission issued an order suspending, subject to refund, the tariff records and establishing hearing procedures. Settlement discussions are ongoing.

**FERC Filing Activity: April 1, 2021 – March 31, 2022**

			retained a consultant to represent the members' interests.		
RP22-3-000	Midwestern Gas Transmission Company	10/1/2022	Intervened on 10/13/2021	2021 Annual Load Management Service Cost Reconciliation Adjustment	On 10/29/2021, the Commission issued a letter order accepting the filing.
RP22-13-000	Transcontinental Gas Pipe Line Company, LLC	10/1/2021	Intervened on 10/13/2021	Cash Out Surcharge Annual Update Filing	On 10/19/2021, the Commission issued a letter order accepting the filing.
RP22-25-000	Texas Eastern Transmission, LP	10/4/2021	Intervened on 10/18/2021	Cameron Extension Project In-Service Compliance Filing	On 10/27/2021, the Commission issued a letter order accepting the filing.
RP21-1143-000	Transcontinental Gas Pipe Line Company, LLC	9/21/2021	Intervened on 10/21/2021 Filed protest with WSS Customer Group on 10/21/2021 Filed answer in opposition to motion for leave to answer with	Petition for Declaratory Order to Charge Market-Based Rates for the Washington Storage Field	Proceeding is currently ongoing with multiple intervenors.

**FERC Filing Activity: April 1, 2021 – March 31, 2022**

			WSS Customer Group on 11/23/2021		
CP21-498-000	Columbia Gas Transmission, LLC	9/21/2021	Intervened on 10/26/2021	Application for Certificate of Public Convenience and Necessity and Abandonment Authority – Virginia Electrification Project	Proceeding is currently ongoing with multiple intervenors.
RP22-84-000	Transcontinental Gas Pipe Line Company, LLC	10/26/2021	Intervened on 11/08/2021	Rate Schedules GSS, LSS & SS-2 Tracker Filing	On 11/16/2021, the Commission issued a letter order the filing.
RP22-94-000	Transcontinental Gas Pipe Line Company, LLC	10/28/2021	Intervened on 11/09/2021	2021 Annual Penalty Revenue Sharing Report	Proceeding is currently ongoing with multiple intervenors.
RP22-110-000	Columbia Gas Transmission, LLC	10/29/2021	Intervened on 11/10/2021	2021 Operational Transaction Rate Adjustment Winter Filing	On 11/17/2021, the Commission issued a letter order accepting the filing.
RP22-137-000	Transcontinental Gas Pipe Line Company, LLC	10/29/2021	Intervened on 11/10/2021	New Pooling Locations Filing	On 11/17/2021, the Commission issued a letter order the filing.
RP22-142-000	Texas Eastern Transmission, LP	10/29/2021	Intervened on 11/10/2021	Polychlorinated Biphenyls December 2021 Filing	On 11/22/2021, the Commission issued a letter order accepting the filing.

**FERC Filing Activity: April 1, 2021 – March 31, 2022**

RP22-144-000	Midwestern Gas Transmission Company	10/29/2021	Intervened on 11/10/2021	2020 - 2021 Cash Out Report	Proceeding is currently ongoing with multiple intervenors.
RP22-135-000	Columbia Gulf Transmission, LLC	10/29/2021	Intervened on 11/10/2021	Capacity Allocation – Interruptions of Service	On 11/30/2021, the Commission issued an order accepting the filing.
RP22-149-000	Texas Eastern Transmission, LP	11/01/2021	Intervened on 11/15/2021	2021 Applicable Shrinkage Adjustment Filing	On 11/22/2021, the Commission issued a letter order accepting the filing.
RP21-525-000	Midwestern Gas Transmission Company	2/26/2021	Intervened protested on 3/10/2021 Filed Direct and Answering Testimony on 11/23/2021	2021 Section 4 Rate Case	On 5/03/2022, the Commission issued an order approving the Stipulation and Offer of Settlement resolving all issues in this proceeding.
RP22-339-000	Columbia Gas Transmission, LLC	11/23/2021	Intervened on 12/06/2021	Operational Transaction Rate Adjustment and Settlement Interim Rate Clarification	On 12/13/2021, the Commission issued a letter order accepting the filing.

**FERC Filing Activity: April 1, 2021 – March 31, 2022**

RP22-363-000	Tennessee Gas Pipeline Company, L.L.C.	11/30/2021	Intervened on 12/13/2021	2020-2021 Cashout Report	Multiple motions to intervene filed. The proceeding is ongoing.
RP22-417-000	Tennessee Gas Pipeline Company, L.L.C.	12/15/2021	Intervened on 12/27/2021	Producer Certified Gas Pooling Service Option	On 4/29/2022, the Commission issued an order rejecting the filing.
RP22-433-000	Range Resources-Appalachia, LLC, and Columbia Gulf Transmission, LLC v. Texas Eastern Transmission, LP	12/21/2021	Intervened on 01/10/2022	Complaint	On 3/24/2022, the Commission issued an order dismissing the complaint and on 5/26/2022 the Commission issued an order denying rehearing on the complaint.
RP22-435-000	Range Resources – Appalachia, LLC v. Texas Eastern Transmission, LP	12/21/2021	Intervened on 1/10/2022	Complaint	On 3/24/2022, the Commission issued an order dismissing the complaint and on 5/26/2022 the Commission issued an order denying rehearing on the complaint. Note that this proceeding was consolidated with Docket No. RP22-433 above.



**FERC Filing Activity: April 1, 2021 – March 31, 2022**

RP22-441-000	Transcontinental Gas Pipe Line Company, LLC	12/30/2021	Intervened on 1/13/2022	Cash Out Surcharge True-Up Filing	On 1/21/2022, the Commission issued a letter order accepting the filing.
RP22-540-000	Texas Eastern Transmission, LP	2/07/2022	Intervened on 02/14/2022	Interim Applicable Shrinkage Adjustment Compliance Filing	On 2/18/2022, the Commission issued a letter order accepting the filing.
RP22-539-000	Texas Eastern Transmission, LP	2/04/2022	Intervened on 02/14/2022	Ministerial Compliance Filing Pursuant to Docket No. RP21-1001-000	On 3/03/2022, the Commission issued a letter order accepting the filing.
RP22-633-001	Columbia Gas Transmission, LLC	3/08/2022	Intervened on 03/21/2022	2022 Retainage Adjustment Mechanism	On 3/24/2022, the Commission issued a letter order accepting the filing.

**FERC Filing Activity: April 1, 2021 – March 31, 2022**

RP22-654-001	Columbia Gas Transmission, LLC	3/08/2022	Intervened on 03/21/2022	2022 Modernization Cost Recovery Mechanism Amendment Filing	On 3/24/2022, the Commission issued a letter order accepting in part, and rejecting in part, the filing.
RP22-689-000	East Tennessee Natural Gas, LLC; Sabal Trail Transmission, LLC; Saltville Gas Storage Company, L.L.C.; Southeast Supply Header, LLC; and Texas Eastern Transmission, LP	3/10/2022	Intervened on 03/22/2022	Request for Waivers – LINK System Maintenance	On 4/15/2022, the Commission issued a letter order granting the request for temporary waiver of certain North American Energy Standards Board Wholesale Gas Quadrant Version 3.2 Standards.

**Exhibit\_\_\_\_(JCP-7)**

Piedmont Natural Gas  
Docket No. 2022-4-G  
Design Day Temperature

Exhibit (JCP - 7)

### **DESIGN DAY WINTER 22-23**

#### **Calculated Weighted Average Temperature - 1/21/1985 - Carolinas**

With 2022 Weights Across Weather Stations

<u>High Temp</u>	<u>Low Temp</u>	<u>Avg Temp **</u>	<u>Weather Station</u>	<u>Weighting *</u>	<u>Weighted Avg</u>
1	-12	-5.5	GEV	0.00519017	-0.0285459
21	-8	6.5	GSO	0.28176785	1.83149101
24	-5	9.5	CLT	0.31655771	3.00729828
23	-8	7.5	HKY	0.05747811	0.43108582
26	-4	11	GSP	0.17177196	1.88949159
16	-2	7	ECG	0.00924114	0.06468795
18	-1	8.5	POB	0.05350253	0.45477153
18	-1	8.5	GWW	0.08206497	0.69755226
27	5	16	ILM	0.02242556	0.35880891
<b>Weighted Average Temperature</b>					<b>8.71</b>

\* Using calculated weightings based on CUVOL report from 4/1/21 to 3/31/22

56.29

\*\* Average of high and low temperatures

\*\*Verified with Weather Normal DDD that 1/21/85 was still the coldest